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4 December 1961

HENDRANDEN REE # Chief, Development Branch, DFD-JD/F

SUBJECT

Trip Report (CXCART)

l. Visits were made to Lockheed (Burbank), Edwards AFD (Main Dase only), and M-H (Mirmapolis) by during the period 27-30 Hovember 1961 to review details of the CRCART program. The itinspary followed was:

Norday, 27 Hovember Tuesday, 28 Hovember Hedmeday, 29 Hovember Tauraday, 30 Hovember LAC, Burbenk LAC and Edwards AFE Edwards AFE and LAC

H-H. Hunsepolis

Subjects of discussion and individual with whom discussed were so follows:

Somic faligue experience with the I-15
Use of IES for rell and pitch presentation to pilot. Telemetering security
SSS radio setema installation Preliminary IES flight test program
Planning and reporting flight tests isocorder for IFIC information Semio beam program
SAS, Automilot, ADC

DOCUMENT NO.
NO CHANGE IN CLASS.
IT DECLASSIFIED
CLASS. CHANGED TO: TS S C
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AUTH: HR 70.2 DATE: GOOD REVIEWER:

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Each of these subjects is covered in the following paragraphs.

2. <u>Barrier</u>. A briefing and inspection tour were given to two lockheed engineers (introduced as "contract engineering consultants", no tis-is with Lankheed mentioned) and

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by the berrier test engineering supervisor at Edwards AFS.

This base has been the site for all Air Force barrior testing in recent years and the experience there covers all known equipment in was or placed by the Air Force. The purpose of this trip was to assure that LAC be quantitatively more of the latest information on barriors.

19

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OXC-2750 Page 2

3. Sonic fatigue experience with the I-15. This subject was covered in an I-15 symposium at Edwards AFS during the week of 20 November 1961, at which LAC representatives were present. had received this information and could foresee no problem with the CACART vehicle at this time. 4. Hee of 188 for roll and mitch presentation to pilot. By adding very limited wiring and a sadteh, roll and pitch presentation from the III) can be given on the pilot's attitude indicator. This would surve to provide a check on proper operation of the INS prior to turning on the autopilot and also an alternate source in event of failure of the ship's system remote gyro for this indication. This modification is considered highly desirable although not ossential. 6. SSS ratio antenna installation. There have been no changes from the original LAC proposal. He problems were foreseen by 25X1A who said this subject would be further discussed at the 12 December supplier's meeting. 7. Preliminary INS flight test program. LAC proposes to accomplish this test. d. Clarates and reporting flight tests. By Meas on this subject were discussed informally in a non-directive manner with These ideas are not in accord with Fr. C. L. Johnson's and were presented only to show my thoughts. With Mr. Johnson's present system there can be no knowledge external to LAC as to flight test planding. 9. December for information. 25X1A reported that a meeting had been held between Esstewn-Kodak, N-H (Florida), and LAC, with the resultant recommendation that the camera and INS contractors come up with a joint solution for this item. This direction was to be given after processing by LAC. This is considered an escential item. 10. Sonie Boom program. A quick look was taken at some rew date gathered in this progress. At 35,000 feet and H-L.53 a B-58 generated shock overpressure was about 2.4 par. At 60,000 feet and M-Q.O, the

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3-58 overpressure was about 1.43 per. An overpressure of this magnitude is well within the sudible range. A speed record attempt for a

Approved For Release 2002/10/30 Approved For Release 2002/10/3

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coast to coast flight, supersonically, in the 3-53 has been proposed to provide siditional information.

11. SAS. Autobilot. ADC. The visit to Mail was primarily for orientation and project review. The technical problems of remaining concern area (1) whether the aeroelasticity predictions for the wehicle will be borne out, and (2) whether the servemenantans to which the SAS imputs are given will perform properly without expossive degradation of the SAS. These are flight test items. The lack of contractual coverage for fully testing the equipment was also pointed out by Fail.

12. Becamminations. In view of the probable interest to this organization in the results of the sonic boom program, it is recommended that NASA contacts be queried as to the preliminary results of this progress. It is further recommended that support be given, if necessary, to assure conduct of coast to coast record flight so that the high altitude-high Mach number effects may be more plainly defined.

SIGNED

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